

Columbia University

BULLETIN OF INFORMATION

Forty-eighth Series, No. 6

January 31, 1948

ANNOUNCEMENT OF COURSES
FOR
PHYSICAL THERAPISTS
—
OCCUPATIONAL THERAPISTS
FACULTY OF MEDICINE · COLUMBIA UNIVERSITY



Columbiana
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1948/49

FOR THE WINTER AND SPRING SESSIONS

1948-1949

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

Columbia University Bulletin of Information

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The series includes the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 10,000—1948

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INFORMATION

Application blanks and further information about the courses in this bulletin may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y. The office is open weekdays 9 a.m. to 5 p.m.; Saturdays by appointment. Telephone: WAdsworth 3-2500, extension 475 or 7818.

WINTER SESSION

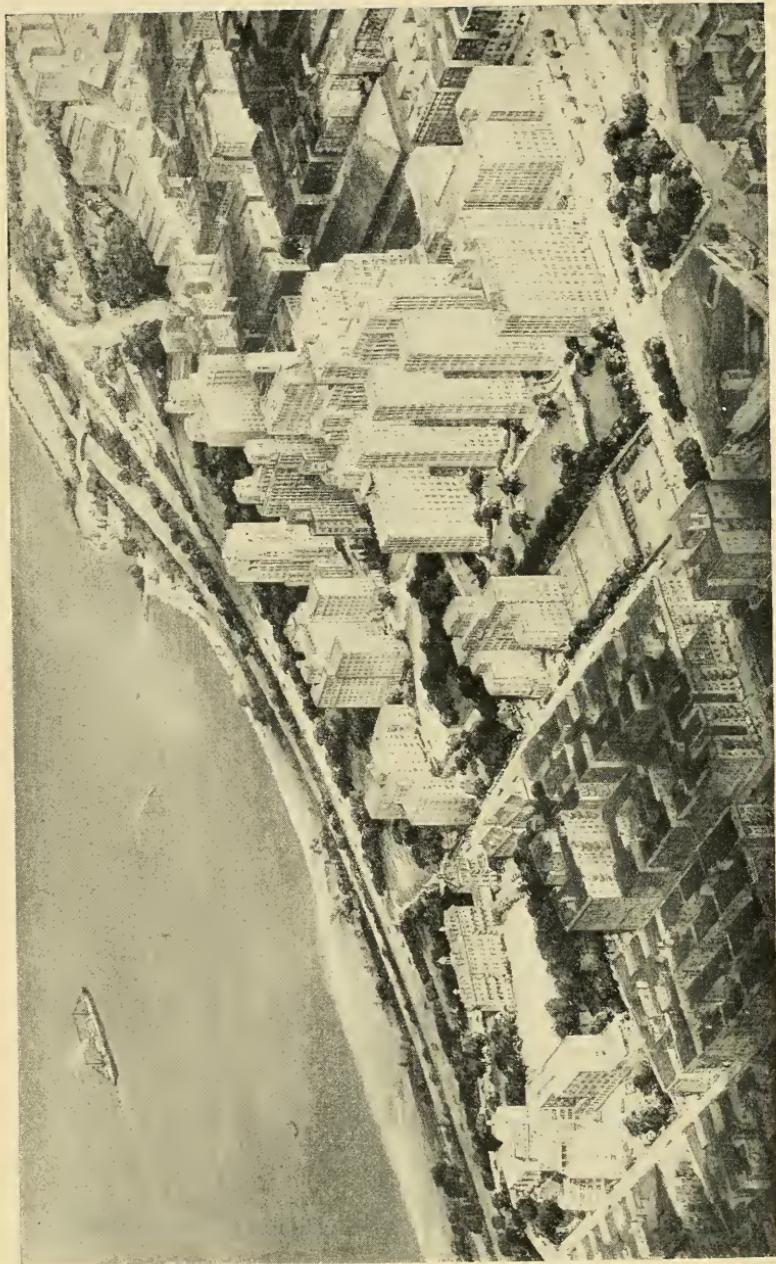
September 23, 1948 to January 29, 1949
Registration—September 20 to 22

SPRING SESSION

January 31 to June 1, 1949
Registration—January 27 to 29



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COLUMBIA-PRESBYTERIAN MEDICAL CENTER

Columbia University

in the City of New York

ANNOUNCEMENT OF

TRAINING COURSES FOR
**PHYSICAL THERAPISTS AND
OCCUPATIONAL THERAPISTS**

FOR THE WINTER AND SPRING SESSIONS

1948-1949



COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

ACADEMIC CALENDAR

1948-1949

1948

July 1 Thursday. Registration in Summer Session begins.
July 4 Sunday. Independence Day.
July 5 Monday. Holiday.
July 6 Tuesday. Forty-ninth Summer Session begins.
August 2 Monday. Last day for filing application for special examinations. The privilege of later application may be granted on payment of a fee of \$3.
August 13 Friday. Forty-ninth Summer Session ends.
September 13 Monday. Examinations for deficient students begin.
September 20 Monday, to September 22, Wednesday. Registration period for students in Physical Therapy and Occupational Therapy courses.
September 22 Wednesday. Opening exercises, 195th year.
September 23 Thursday. Classes begin for the Winter Session.
October 1 Friday. Last day for filing applications for B.S. degrees and certificates to be awarded in October. The privilege of later application may be granted on payment of a late fee.
October 2 Saturday. Last day for change of program in the Winter Session for students in Physical Therapy and Occupational Therapy courses.
October 12 Tuesday. Columbus Day. Not a University holiday.
November 2 Tuesday. Election Day. Holiday.
November 11 Thursday. Midterm date, Winter Session.
November 23 Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
November 25 Thursday. Thanksgiving Day. Holiday.
December 1 Wednesday. Last day for filing applications for B.S. degrees and certificates to be awarded in February. The privilege of later application may be granted on payment of a late fee.
December 22 Wednesday, to

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January 4 Tuesday, inclusive. Christmas holidays.
January 16 Sunday. Annual Commemoration Service in St. Paul's Chapel.
January 17 Monday. Midyear examinations begin.
January 27 Thursday, to January 29, Saturday. Registration period for students in Physical Therapy and Occupational Therapy courses.
January 29 Saturday. Winter Session ends.
January 31 Monday. Classes begin for the Spring Session.
February 5 Saturday. Last day for change of program in the Spring Session for students in Physical Therapy and Occupational Therapy courses.
February 12 Saturday. Alumni Day. Not a University holiday.
February 22 Tuesday. Washington's Birthday. Holiday.
March 1 Tuesday. Last day for filing applications for B.S. degrees and certificates to be awarded in June. The privilege of later application may be granted on payment of a late fee.
March 10 Thursday. Last day for filing application for special examinations to be held in April. The privilege of later application may be granted on payment of a fee of \$3.
March 19 Saturday. Midterm date, Spring Session.
April 4 Monday, to April 8, Friday, inclusive. Deficiency examinations.

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April	10	Sunday, to April 17, Sunday, inclusive. Easter holidays.
May	16	Monday. Final examinations begin.
May	29	Sunday. Baccalaureate Service.
June	1	Wednesday. Conferring of degrees.
June	30	Thursday. Registration in Summer Session begins.
July	4	Monday. Independence Day. Holiday.
July	5	Tuesday. Fiftieth Summer Session begins.
August	1	Monday. Last day for filing application for deficiency and special examinations to be held in September. The privilege of later application may be granted on payment of a late fee.
August	12	Friday. Fiftieth Summer Session ends.

TRAINING COURSES FOR
PHYSICAL THERAPISTS AND
OCCUPATIONAL THERAPISTS

ADMINISTRATIVE OFFICERS

DWIGHT D. EISENHOWER, LL.D., *President of the University*

WILLARD COLE RAPPLEYE, A.M., M.D., ScD., *Dean, Faculty of Medicine*

WILLIAM BENHAM SNOW, M.D., *Assistant Professor of Medicine, Faculty of Medicine; Director of Physical and Occupational Therapy, Columbia-Presbyterian Medical Center*

JOSEPHINE L. RATHBONE, Ph.D., *Associate Professor of Health and Physical Education in Teachers College; Director of Training Courses for Physical Therapists*

FLOY PINKERTON, A.M., *Associate Director of Training Courses for Physical Therapists*

¹MARJORIE FISH, A.B., O.T.R., *Director of Training Courses for Occupational Therapists*

MARIE LOUISE FRANCISCUS, B.S., O.T.R., *Acting Director of Training Courses for Occupational Therapists*

MARGUERITE ABBOTT, B.S., O.T.R., *Associate Director of Training Courses for Occupational Therapists*

¹ On leave 1948-1949.

THIS ANNOUNCEMENT describes two separate training courses offered by Columbia University: Physical Therapy and Occupational Therapy. These courses are given at the Columbia-Presbyterian Medical Center under the auspices of the Faculty of Medicine. The courses of study are approved by the Council on Medical Education and Hospitals of the American Medical Association, and prepare the student to meet the qualifications for registration in either Physical or Occupational Therapy.

The information immediately following is concerned with general University regulations which apply to all students. For complete details on each of the two training programs, refer to the appropriate section in this Announcement.

REGISTRATION AND EXPENSES

REGISTRATION

Before attending any University course, every student must present himself at the office of the Registrar and file a registration form, giving such information as may be required. The office is situated on the second floor of the College of Physicians and Surgeons, 630 West 168th Street, and is open from 9 a.m. to 5 p.m. daily except Saturdays and holidays, and on Saturday from 9 a.m. to 12 noon. The periods set aside for registration of students in physical and occupational therapy for the Winter and Spring Sessions of the academic year 1948-1949 are as follows:

Winter Session: September 20 to September 22.

Spring Session: January 27 to January 29.

Approval of Program. Programs for all students in the training courses in physical and occupational therapy must be approved before registration by the directors of training in physical and occupational therapy. All changes of program must also be approved by the director, and no change of program will be permitted beyond the second Saturday after the opening of the Winter Session or beyond the first Saturday after the opening of the Spring Session (see Academic Calendar) except by special permission.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following fees are prescribed for physical and occupational therapy:

(a) University Fee

For each Winter or Spring Session or any part thereof	\$10.00
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(b) Tuition Fee

For all courses except where a special fee is fixed, per point	15.00
With the proviso that the fee for a Winter or Spring Session in the case of a student enrolled for fifteen or more points in physical therapy or in occupational therapy shall be	225.00

(c) Medical Examination 5.00

(d) Fee for Application

For any degree	20.00
For any certificate	10.00

(e) Privileges

1. Late registration or late application for a degree or certificate or for deficiency or special examinations	3.00
2. Renewal of application for any degree or certificate	1.00
3. Deficiency and special examinations	3.00

(f) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.
2. After the last day of the period provided for change of course, as announced in the Academic Calendar, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

For the ultimate date for the completion of registration and for filing an application for a special examination, or for a certificate, without the payment of an additional fee, see the Academic Calendar.

A deposit for the use of lockers, keys, apparatus, material, and the like is required of students in certain schools and courses.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Director that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register for the courses for the following academic year, it will not be returned. If he registers in the Division of Physical and Occupational Therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition fees.

GENERAL REGULATIONS

RESIDENCE

All women students under twenty-three years of age who are not living at home or with relatives are required to secure approval of their residence from the Directors of Training Courses, Office of Physical and Occupational Therapy, College of Physicians and Surgeons. Detailed information concerning desirable accommodations may be obtained from this office.

MEDICAL EXAMINATION

In accordance with the requirements of the American Medical Association a physical examination, including tuberculin tests, will be given each student in the professional courses during the first session of attendance. A fee of \$5 is charged for this examination, which is payable at the time of registration. Further physical examinations will be given annually during the training period when deemed advisable.

STUDENTS

Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Office of Occupational and Physical Therapy for equitable relief.

ABSENCES

It is a student's duty to attend punctually each class or laboratory exercise in each course. For credit toward the certificate and degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time

on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the Dean of each Faculty and the Director of the work of each Administrative Board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Director. Students withdrawing are required to notify the Registrar immediately.

The Director may, for reasons of weight, grant a leave of absence to a student in good standing.

RESIDENCE HALLS AND OTHER FACILITIES

RESIDENCE HALLS

The Residence Halls of the University are located on or immediately adjacent to the Campus and afford easy access to libraries and classrooms as well as comfortable accommodations in an environment conducive to academic work. They serve also as a center of campus life and provide for students companionship with other students of like interests. The University, therefore, desires its students to live whenever possible in Residence Halls.

Within several of the Residence Halls are dining rooms maintained for all students and faculty of the University.

The Hall infirmaries are for the exclusive use of those living in the Residence Halls.

Assignment of rooms is made on the session basis. Room payments are due at the beginning of each session, but in case of need other arrangements can be made.

Students coming from out of town to attend evening classes or those who wish to stay overnight at Columbia for any reason may secure accommodations by applying to the Livingston Hall office (for men) or Johnson Hall office (for women).

Copies of the Residence Halls Announcements and application blanks for rooms will be furnished on request by the Secretary of the University, 213 Low Memorial Library.

Residence for Men

There are four University Residence Halls on South Quadrangle which have accommodations for approximately 1,684 men. Hartley Hall, Living-

ston Hall, and the lower floors of John Jay Hall are reserved for students in Columbia College; Furnald Hall for law and graduate students; and the upper floors of John Jay Hall for graduate and professional school students. Rates for the academic year range from \$170 to \$350. There are a few rooms available at \$140 which are assigned only with the approval of the Director of the University Placement Bureau, Alumni House. Application for these accommodations should be filed with the Men's Residence Halls Office, together with the statement that application has been made to the Director of the University Placement Bureau for his approval. These lowest-priced rooms will not be assigned to students holding scholarships amounting to \$400 or more.

All rates are subject to change if costs increase greatly.

Requests for further information and application forms should be sent to the Residence Halls Office, 125 Livingston Hall. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

The main dining room is on the first floor of John Jay Hall. The lower John Jay Lobby leads to the Lion's Den, a grill room (open to both men and women students) with facilities for late breakfast, lunch, and dinner.

Residence for Women

Johnson Hall is provided by the University as a residence for women students in the graduate and professional schools. The Hall was erected and particularly designed for the comfort and convenience of women students. With its various social rooms, attractive dining room, and comfortable bedrooms, it offers pleasant conditions for University life. The rates for rooms range from \$185 to \$370 for the academic year. The rate for two meals a day, breakfast and dinner, is \$310 for the academic year. All rates are subject to change if costs increase greatly. Residents of Johnson Hall are required to take breakfast and dinner in the dining room of Johnson Hall.

OFF-CAMPUS ACCOMMODATIONS

Columbia University maintains a Registry of Off-Campus Accommodations where the addresses of available furnished rooms and apartments in the neighborhood may be obtained. It is not possible to obtain listings by mail as these accommodations are for immediate rental, and it is advisable that rooms be engaged only after personal inspection. This Registry is for the use of faculty, staff, and students of the University and each applicant must show a letter of admission or some other official Columbia correspondence to be eligible for this service. There is no charge

for this service to either the student or the landlord and all financial arrangements must be concluded between the applicant and the landlord.

Women under twenty-one years of age are expected to make their selection from a special list of addresses.

VETERANS' HOUSING

There are apartments at Shanks Village, New York, for Columbia University veteran students and faculty. Shanks Village is located within one hour's commuting distance of the campus. These apartments are assigned to applicants on a chronological priority basis of application as apartments become available. The prices range from \$29 for a studio apartment to \$38 per month for a three-bedroom apartment with kitchen, living room, and bath. These rates include water, electricity for lighting and gas for cooking and hot water. There is a small additional charge for heating. Stoves and ice boxes are furnished and basic furniture is available, if desired, at a small rental.

There are also housekeeping and non-housekeeping apartments and dormitory accommodations available at North Brother Island in the East River, at approximately 140th Street in New York City, within one hour's commuting distance of the campus. The dormitory accommodations are \$22 a month and the rates for apartments range from \$36 to \$48. The apartments are not furnished but the dormitory accommodations are equipped.

Inquiries and requests for applications should be sent to the Veterans Housing Bureau, Livingston Hall, Columbia University.

STUDENT HEALTH SERVICE

Daily office hours are held by the Student Health Service in Room 2-220 of the Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical School.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge as a center for the religious and social activities of the students. On the main and upper floors, reached by the Campus entrance, are the offices of the Chaplain and his staff and of the three Religious Counselors. These floors also contain an auditorium, a lounge, meeting room, kitchen, and other facilities. The lower floor, entered from the Broadway side, is occupied by the offices of the University Medical Officer.

THE LIBRARY

The University Library system consists of the main collection housed in the Nicholas Murray Butler Library Building and over thirty departmental

libraries and reading rooms located in various buildings. These libraries contain over 2,000,000 volumes, exclusive of unbound pamphlets. Among those affording unusual advantage to the students in physical and occupational therapy are the libraries of Teachers College and the Medical Library of the College of Physicians and Surgeons located at the Columbia-Presbyterian Medical Center. A special alcove contains the latest literature relating to war medicine. The periodical room is especially equipped to foster and encourage research work.

The physical and occupational therapy collection is housed in the Medical Library, which is open each weekday from 8:30 a.m. to 10 p.m., on Saturday from 9 a.m. to 6 p.m., and on Sunday from 10 a.m. to 2 p.m.

Students registered for physical or occupational therapy courses have the privilege of using the Lending Service Department (Room 203, Butler Library), which provides for a small daily fee not only current books of general interest, fiction and nonfiction, but also books needed for required and recommended reading in many courses.

VETERANS

The University has provided special facilities in the Veterans Affairs Building, between Low Memorial Library and University Hall on the Morningside campus, to assist students in solving their particular problems as veterans. These include suboffices of the Registrar and Bursar, and the office of the Counselor to Veterans. Every student is urged to take advantage of the personal guidance service afforded by the Counselor and his staff, who are available for information and advice on any of the diverse problems, personal, academic, or governmental, which may arise during the school year. Also in the building is a suboffice of the Veterans Administration where training officers may be consulted on matters pertaining to tuition and subsistence.

MEDICAL CENTER BOOKSTORE

For the convenience of students, the University Bookstore maintains a branch situated on the second floor of the College of Physicians and Surgeons. The store carries a large stock of textbooks, domestic and foreign, and all other student supplies. Substantial savings are effected whenever manufacturers and publishers permit.

STUDENT ACTIVITIES

The Physical and Occupational Therapy Club is the student organization in which activities of a recreational, social, and professional nature are carried on. Men and women prominent in these fields are invited to address the Club.

One of the special activities is the visual education program of movies em-

bracing physical and occupational therapy techniques, physical restoration, and vocational aspects of rehabilitation.

Each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting coöperation and understanding among the students, faculty, and administration.

Graduates of the Physical and Occupational Therapy programs have Alumni Associations, which in turn, are group members affiliated with the Alumni Federation of Columbia University.

Opportunities for exercise and recreation are provided.

Students are encouraged to utilize the educational and cultural opportunities offered in the city of New York.

SCHOLARSHIPS AND STUDENT AID

SCHOLARSHIPS

Funds for scholarships and other student loans are available to students in physical and occupational therapy. Applicants for these scholarships should communicate with the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

LOAN FUNDS

Loan funds are provided in limited amount for student assistance. Application is made on a blank which may be obtained from the Bursar, Room 310, University Hall. Application for loans for the Winter Session should be made by September 15; for the Spring Session, by January 15.

EMPLOYMENT

The University Placement Bureau, located in Alumni House, is that department of the University through which men and women students and graduates are referred to suitable positions during their attendance at the University and after graduation. A booklet describing the facilities of the Placement Bureau and the more general types of employment opportunities available will be mailed upon request. Communications should be addressed to the Director of the University Placement Bureau, Alumni House, Columbia University, New York 27, N. Y.

The Physical and Occupational Therapy Office maintains a listing of positions throughout the country available to graduate therapists. Current graduates and alumni are encouraged to refer to the Office for these positions.

Training Courses for
Physical Therapists

ADMINISTRATIVE OFFICERS

WILLIAM BENHAM SNOW, M.D., *Assistant Professor of Medicine, Faculty of Medicine; Director of Physical and Occupational Therapy, Columbia-Presbyterian Medical Center*

JOSEPHINE L. RATHBONE, Ph.D., *Associate Professor of Health and Physical Education in Teachers College; Director of Training Courses for Physical Therapists*

FLOY PINKERTON, B.S., A.M., *Associate Director of Training Courses for Physical Therapists*

OFFICERS OF INSTRUCTION
PHYSICAL THERAPY

MARGUERITE ABBOTT, O.T.R. *Motor Disabilities*
B.S., Tufts; Graduate, Boston School of Occupational Therapy.
Associate Director, Training Courses for Occupational Therapists.

WILLIAM B. ATKINSON *Anatomy and Physiology*
B.S., M.S., Virginia; Ph.D., Yale.
Assistant Professor of Anatomy.

FRANK D. CARROLL *Practical Application*
M.D., Yale.
Associate in Ophthalmology.

CASSIUS LOPEZ DE VICTORIA *Practical Application*
M.D., New York Medical College.
Instructor in Medicine; Director, Physical Therapy, St. Clare's Hospital.

HERBERT O. ELFTMAN *Anatomy and Physiology*
A.B., A.M., California; Ph.D., Columbia.
Assistant Professor of Anatomy.

¹MARJORIE FISH, O.T.R. *Theory of Occupational Therapy*
A.B., Swarthmore; Graduate, Boston School of Occupational Therapy.
Director, Training Courses for Occupational Therapy.

MARIE LOUISE FRANCISCUS, O.T.R. *Principles and Practice of Occupational Therapy*
B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy.
Acting Director, Training Courses for Occupational Therapists.

ARNO DAVID GUREWITSCH *Massage, Hydrotherapy, Practical Application*
M.D., Basel.
Assistant in Medicine; Assistant Physician in Charge of Physical Therapy, New York State Reconstruction Home.

JULIA SINGER HALLER *Therapeutic Exercise, Practical Application, Motor Disabilities*
M.D., Vienna.
Assistant in Medicine.

¹ On leave 1948-1949.

PAUL FREDERICK ADAM HOEFER	<i>Physical Therapy Theory</i>
A.M., Ph.D., Berlin; M.D., Wurzburg. Associate Professor of Neurology.	
WILLIAM HORWITZ	<i>Physical Therapy Theory</i>
M.D., Albany Medical College; D.Sc., Columbia. Associate in Psychiatry.	
M. BECKETT HOWORTH	<i>Orthopedics</i>
B.S., Mississippi; M.D., Washington; D.Sc., Columbia. Associate in Orthopedic Surgery.	
KENNETH KELLEY	<i>Psychiatry</i>
M.D., Northwestern. Assistant in Psychiatry.	
FREDERICK C. MACCURDY	<i>Ethics</i>
B.S., M.D., Columbia; Ph.G., Washington. Lecturer in Nursing Education in Teachers College; Commissioner, New York State Department of Mental Hygiene.	
HARRISON McLAUGHLIN	<i>Practical Application</i>
M.D., Queens University Medical College. Professor of Clinical Orthopedic Surgery.	
JAMES LOWRY MILLER	<i>Practical Application</i>
M.D., Pennsylvania. Assistant Clinical Professor of Dermatology.	
ROBERT MULLER	<i>Practical Application</i>
M.D., Prague. Instructor in Medicine; Director, Physical Therapy, St. Luke's Hospital.	
FLOY PINKERTON	<i>Kinesiology</i>
B.S., Stephen F. Austin State Teachers College; A.M., Columbia. Associate Director, Training Courses for Physical Therapists.	
JOSEPHINE L. RATHBONE	<i>Methods of Relaxation, Rehabilitation, Kinesiology</i>
A.B., A.M., Wellesley; Ph.D., Columbia. Associate Professor of Health and Physical Education in Teachers College. Director of Training Courses for Physical Therapists.	
MONICA REYNOLDS	<i>Physiology</i>
B.S., Simmons; A.B., Columbia. Instructor in Physiology.	
FRANK KNAPP SAFFORD, JR.	<i>Physical Therapy Theory, Radiation</i>
M.D., Vienna. Assistant in Medicine.	
BERTRAM J. SANGER	<i>Practical Application</i>
A.B., Texas; M.D., Johns Hopkins. Assistant Clinical Professor.	
ALAN DE FOREST SMITH	<i>Adviser in Orthopedics</i>
A.B., M.D., Columbia. Professor of Orthopedic Surgery.	

WILLIAM BENHAM SNOW . . . *Therapeutic Exercise, Ethics, Practical Application, Physical Therapy Theory, Motor Disabilities*

M.D., Long Island College of Medicine.
Director, Physical Therapy and Occupational Therapy, Columbia-Presbyterian Medical Center and New York Orthopedic Hospital.

JEROME P. WEBSTER *Practical Application*

A.B., M.S., Trinity; M.D., Johns Hopkins.
Assistant Professor of Clinical Surgery.

DOROTHEA G. WORCESTER *Pathology*

A.B., Manhattanville College; M.D., New York University.
Instructor in Pathology.

FREDERIC T. ZIMMERMAN *Neurology, Psychiatry*

A.B., Bucknell; A.M., Columbia; M.D., Maryland.
Instructor in Neurology.

MARJORIE ZUCKER *Physiology*

A.B., Vassar; Ph.D., Columbia.
Research Assistant in Physiology.

SPECIAL LECTURERS

ESKIL ANDERSON *Hydrotherapy*

D.S., Eastern Reserve.
Physical Therapist, Columbia-Presbyterian Medical Center.

BESSIE B. BURGEMEISTER *Abnormal Psychology*

A.B., A.M., Ph.D., Columbia.
Research Psychologist, Department of Neurology.

MARY ELIZABETH CALLAHAN, R.N. *Physical Therapy Theory, Massage, Hydrotherapy*

Graduate, Clinton Hospital, Clinton, Mass.; Physical Therapy, Posse Institute.
Physical Therapist, Columbia-Presbyterian Medical Center.

ELIZABETH M. CARRICK *Social Case Work and Records*

B.S., Ohio State; A.M., New York School of Social Work.
Instructor, New York School of Social Work.

MARY A. COVER *Therapeutic Exercise*

Graduate, Sargent School of Physical Education; Physical Therapy, Walter Reed Hospital.
Head Physical Therapist, Neurological Institute.

HELEN GABRUNAS, R.N. *Bandaging*

Graduate, St. Joseph's Hospital, Victoria, B.C.
Head Nurse, Fever Therapy, Columbia-Presbyterian Medical Center.

SERGIE FEITELBERG *Physics*

M.D., Lauzanne.
Physicist, Mount Sinai Hospital.

JUSTIN GREENE *Motor Disabilities*

M.D., Pennsylvania.
Assistant Attending Neurologist, Neurological Institute.
Assistant in Neurology.

EDITH HANSEN, R.N., P.H.N. *Physical Therapy Theory*

Graduate, General Lutheran Hospital, Sioux City, Iowa; University of Minnesota.

EDWARD F. HARTUNG *Practical Application*
A.B., M.D., Columbia.
Assistant Clinical Professor of Medicine, New York Post-Graduate Medical School and Hospital.

JETTA HENDIN *Therapeutic Exercise*
B.S., Manitoba.
Physical Therapist, Columbia-Presbyterian Medical Center.

MORTON HOBERMAN *Bandaging*
M.D., Wayne.

HANS KRAUS *Therapeutic Exercise, Practical Application*
M.D., Vienna.
Chief of Physical Therapy, Vanderbilt Clinic, Columbia-Presbyterian Medical Center.

HARRIET McCORMICK *Swimming*
B.S., Wisconsin; A.M., Ph.D., Columbia.

MARGARET A. O'NEILL *Therapeutic Exercise*
Graduate, Sargent School for Physical Education; B.S., A.M., New York University.
New York State Reconstruction Home, West Haverstraw, N. Y.

MARJORIE P. SHELDON *Rehabilitation*
B.S., A.M., New York University.
Instructor, Orthopedic Physical Education, Branch Brook School, Newark, N. J.

BEVERLY CHUE SMITH *Practical Application*
M.D., Virginia.

S. EISENMAYER WEBER *Therapeutic Exercise*
D.S., Eastern Reserve.
Head Physical Therapist, Clinic for Postural Correction, Vanderbilt Clinic.

PHYSICAL THERAPY occupies an ever-growing importance in the practice of medicine and surgery. It embodies the utilization of such natural agents as sunshine, water, exercise, massage, mechanical forces, and electricity as aids in the treatment of disease and injury. Functional rehabilitation of persons injured in war and in civilian activities is a pressing medical need; the skillful application of physical therapy following injury will do much to shorten the time of disability. There is need for highly trained physical therapists to assist with the care of these patients. Furthermore, in the severely injured cases physical therapy considerably lessens the ultimate disability. The success of this type of treatment depends upon the therapist's knowledge of the pathology of the condition to be treated, and upon the care and precision with which the physical treatment is administered.

The course of study here described gives the student a basic knowledge of the human organism and the functions of the body in health as well as in those diseases for which physical therapy can be helpful. The various physical methods are thoroughly considered and modern techniques of application are taught. The application of this form of treatment to meet special medical problems is the final consideration. In the latter half of the course, ample hours are spent in treatment clinics in affiliated hospitals where the student has the opportunity to apply physical therapy to sick and injured patients. The therapist is trained to work under physicians and surgeons in accordance with the highest ethical standards of the profession.

A Bachelor of Science degree is offered to undergraduate candidates who present a minimum of sixty liberal arts credits on completion of two full years of professional training.

A Certificate in Physical Therapy is awarded to students who already have a Bachelor's degree and, in a few instances, to Public Health Nurses, upon completion of one year of full-time training as outlined on page 24.

The program utilizes the clinical and educational facilities of various academic departments of the University, the College of Physicians and Surgeons, and the Division of Nursing Education and Department of Health Education and Physical Education of Teachers College.

Arrangements have been made with the Division of Nursing Education of Teachers College, Columbia University, by which qualified graduate nurses may combine the advanced course in orthopedic nursing offered in that Division with the program in physical therapy and complete the requirements of both in a minimum time.

ADMISSION REQUIREMENTS

Admission to the professional courses is open to qualified students from nineteen to thirty-five years of age. Students are admitted in September only.

Applicants for admission must be graduates of approved high schools and must satisfy *one* of the following requirements.*

Candidates for the two-year course of study:

- (a) Two years or sixty semester hours of credit in the liberal arts, with a strong offering in the basic sciences—biology, chemistry, physics, psychology, etc.
(The Bachelor of Science degree will be awarded.)
- (b) Graduation from an accredited School of Nursing.
(The Certificate will be awarded.)

Candidates for the one-year course of study:

- (a) Graduation from an approved college with a Bachelor of Arts or Bachelor of Science degree.
(The Certificate will be awarded.)
In selected cases, certain credits may be transferred subsequently to Teachers College to be applied toward the Master of Science degree.
- (b) Graduation from an approved School of Nursing and subsequent experience in public health nursing closely allied to Physical Medicine.
(The Certificate will be awarded.)

Students may be allowed to complete requirement (a)—two years of acceptable college work—in the School of General Studies.

In considering application, quality of preparation is important. Demands made on the physical endurance and emotional stamina of the therapist require a good record in these respects.

For details of admission procedure see page 6.

ESTIMATED EXPENSES

Following is an itemized estimate of expenses of attendance in the courses in physical therapy.

<i>University Expenses</i>	<i>Two-Year Course</i>	<i>One-Year Course</i>
Tuition	\$900.00	\$510.00
University Fees	40.00	25.00
Books, materials, equipment, uniforms	90.00	75.00
Fee for physical examination	5.00	5.00
Degree application	20.00	10.00
	<hr/>	<hr/>
	\$1,055.00	\$625.00

* The Regulations of the Council on Medical Education and Hospitals of the American Medical Association read as follows:

- (a) Two years or sixty semester hours of acceptable college work, including courses in biology and other sciences, physics and chemistry recommended, or
- (b) Graduation from an accredited school of nursing, or
- (c) Graduation from an accredited school of physical education.

<i>Living Expenses (academic year)</i>	<i>Average</i>	<i>Minimum</i>
Room	\$370	\$185
Board	310	310
	<hr/>	<hr/>
	\$680	\$495

COURSE OF STUDY IN PHYSICAL THERAPY

An outline of the program of studies for each year of the course is given below. This course of study meets requirements of, and is approved by, the Council on Medical Education and Hospitals of the American Medical Association.

DEGREE COURSE

FIRST YEAR

Winter Session

		Points
<i>Anatomy 155</i>	Anatomy and physiology	3
<i>Physics 111</i>	Physics applied to physical medicine	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Ethics 39</i>	Ethics and institutional aspects of physical therapy	1
<i>Massage 3</i>	Theory and practice	2
<i>Kinesiology 105</i>	Applied anatomy and kinesiology	1 or 2
<i>Recreation 171</i>	Rehabilitation through physical education and recreation	2
<i>Psychology 33</i>	Abnormal psychology	2
<i>Education 41R</i>	Introduction to records and case work	1
<i>Swimming 5</i>	Elementary swimming	1
		<hr/>
		16 or 17

Spring Session

<i>Radiation 10</i>	Theory and practice of heat application and radiation	2
<i>Hydrotherapy 18</i>	Theory and practice of hydrotherapy	1
<i>Orthopedics 136</i>	General survey of orthopedics	2
<i>Exercise 112</i>	Therapeutic exercise	3
<i>Clinical Instruction and Experience in Massage (100 hours minimum)</i>	Methods of relaxation	2
<i>T.C. Relaxation 168D</i>	Practical application of physical therapy, Part I	2
<i>Application 30</i>	Elementary psychiatry	2
<i>Psychiatry 102</i>		<hr/>
		16

SECOND YEAR

Winter Session

<i>P.T. Theory 13</i>	Theory and practice of electrotherapy, etc.	2
<i>Motor Disabilities 121</i>	Physical therapy techniques for motor disabilities	2
<i>Bandaging 17</i>	Bandaging and dressings	1
<i>Clinical Instruction and Experience in Therapeutic Exercise (100 hours minimum)</i>	Psychosomatic aspects of physical medicine	2
<i>Psychiatry 101</i>	Applied physiology	2
<i>Physiology 157</i>	Anatomy of the nervous system	1
<i>Neuroanatomy 95</i>		<hr/>
<i>Electives (toward degree)</i>		6
		<hr/>

COLUMBIA UNIVERSITY

Spring Session

	Points
Massage 104	2
O.T. Theory 14	2
Application 30	3
Rehabilitation 150	2
Education 262K	3
Neurology 106	2
General Clinical Experience (100 hours minimum). Required, non-credit.	
Electives (toward degree)	4
	18

Summer Session, 1949

(One month Clinical)

Exercise 5112	Instruction, return demonstration, and general practice at the New York State Reconstruction Home.	2
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CERTIFICATE COURSE

Winter Session

Anatomy 155	3
Physics 111	2
Massage 3	2
Pathology 31	2
Ethics 39	1
P.T. Theory 13	3
Neuroanatomy 95	1
Physiology 157	2
Bandaging 17	1
Kinesiology 105	1
Swimming 5	1
	18

Spring Session

Neurology 106	2
Psychiatry 102	2
Radiation 10	2
Hydrotherapy 18	1
Orthopedics 136	2
Exercise 112	3
Application 30	5
Rehabilitation 150	2
	19

Summer Session, 1949

(Three months Clinical)

Points

<i>Exercise S112</i>	
Instruction, return demonstration, and general practice at New York State Reconstruction Home (1 month) . . .	2
General supervised clinical experience at Columbia-Presbyterian Medical Center (2 months)	2
	4

HOSPITALS AFFILIATED FOR CLINICAL TRAINING

(Attendance concurrent with theoretical and technical work)

In addition, all students are required to spend a period during intersession in full-time clinical practice.

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N.Y.

John S. Parke, *Executive Vice-President*

Presbyterian Hospital

Mrs. Edith Hansen, R.N., *Head Physical Therapist*

Neurological Institute

Miss Mary A. Cover, *Head Physical Therapist*

New York Orthopaedic Dispensary and Hospital

Miss Katherine Giblin, *Head Physical Therapist*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N.Y.

Col. John N. Smith, Jr., *Director*

Charles Kinnard, *Director of Physical Therapy*

NEW YORK POST-GRADUATE HOSPITAL, New York, N.Y.

William B. Talbot, M.D., *Superintendent*

NEW YORK STATE RECONSTRUCTION HOME, West Haverstraw, N.Y.

Edward S. Godfrey, Jr., M.D., *Commissioner (Department of Health, State of New York)*

A. J. Canning, M.D., *Director*

Margaret A. O'Neill, A.M., *Head Physical Therapist*

BRONX VETERANS HOSPITAL, New York, N.Y.

Harry Kessler, M.D., *Chief, Physical Medicine Rehabilitation Service*

Mabel C. Ryan, *Chief Physical Therapist*

RAY CLINIC VETERANS HOSPITAL, New York, N.Y.

Mandell Shimberg, M.D., *Chief, Physical Medicine Rehabilitation Service*

G. DiNubila, *Chief Physical Therapist*

MARINE HOSPITAL, UNITED STATES PUBLIC HEALTH SERVICE, New York, N.Y.

Samuel M. Paley, M.D., *Director, Physical Medicine*

Elizabeth Wallace, *Chief Physical Therapist*

OUTLINE OF COURSES

The University reserves the right to withdraw or modify these courses or to change the instructors as may seem wise.

NOTE: For additional courses open to students in physical therapy consult the Announcements of Teachers College and the School of General Studies.

FIRST YEAR

Winter Session

Anatomy 155—Anatomy and physiology. Lectures and laboratory. 3 points. Professors ELFTMAN and ATKINSON.

For students in physical and occupational therapy. Provides the basic and related histology, anatomy, and physiology for understanding the human body, especially the muscle-joint-bone unit. Includes demonstration on the human cadaver.

Physics 111—Physics applied to physical medicine. 2 points. Dr. FEITELBERG.

Basic kinetics, radiation, hydro-dynamics, and electricity as they apply to the practice of physical therapy.

Pathology 31—Elementary studies in pathology. 1 point. Dr. WORCESTER.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of functions resulting from these influences.

Ethics 39—Ethics and institutional aspects of physical therapy. 1 point. Professor SNOW and Dr. MACCURDY.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

Massage 3—Theory and practice. 2 points. Dr. GUREWITSCH and assistants.

The theory and practice of massage with laboratory demonstrations and practice on patients.

Kinesiology 105—Applied anatomy and kinesiology. 1 or 2 points. Miss PINKERTON.

Topics include review of gross anatomy of skeletal and muscular systems, mechanics of bodily movement, and analysis of skills used in daily activities and in physical and occupational therapy.

Recreation 171—Rehabilitation through physical education and recreation. 1 or 2 points. Professor RATHBONE.

To be applied to needs of exceptional children or to rehabilitation for adults. Activities include those appropriate for various types of handicaps as well as for various age levels.

Psychology 33—Abnormal psychology. 2 points. Dr. BURGEMEISTER.

This course describes the common mental maladjustments, undertaking to explain them in terms of general psychological principles. The social implications of abnormalities are emphasized.

Prerequisite: General psychology.

Education 41R—Introduction to records and case work. 1 point. Mrs. CARRICK.

Orientation in case work methods. Special emphasis is placed upon techniques and practice in reading the total record of the patient and in writing intelligent observational reports.

Swimming 5—Elementary swimming. 1 point. Dr. MCCORMICK.

Consideration is given to the skills and methods of teaching swimming.

*Spring Session***Radiation 10—Theory and practice of heat application and radiation.** 2 points. Dr. SAFFORD.

A study of spectral radiation and the theory and technique of application of radiation of various types. Actual practice in various institutions.

Hydrotherapy 18—Theory and practice of hydrotherapy. 1 point. Dr. GUREWITSCH and Mr. ANDERSON.

Instruction and demonstration of the indications and techniques given at Neurological Institute.

Orthopedics 136—Orthopedics. 2 points. Dr. HOWORTH, Professor SMITH, and staff.

Lectures and clinical presentations descriptive of orthopedic conditions; some discussion as to problems—personal, medical, surgical. Rehabilitation problems common to this group of patients.

Exercise 112—Therapeutic exercise. 2 or 3 points. Professor SNOW, Drs. HALLER and KRAUS, Mrs. WEBER, and Misses COVER, HEMLOCK, and HENDIN.

Fundamentals of muscle re-education; the application of directed movement as an accessory in the treatment of altered function; includes underwater techniques and practice in the treatment of crippled patients.

T.C. Relaxation 168D—Methods of relaxation. 2 points. Professor RATHBONE.

The causes of fatigue and neuromuscular hypertension and some approved methods for release of tension. Those needing extra practice in relaxation should elect *Physical Education 136s* (Teachers College).

Application 30 (Part I)—Practical application of physical therapy in medical and surgical practice. Lectures and laboratory. 2 points Spring Session. Professor SNOW and associates.

This course gives the students a closer acquaintance with disease as it occurs in medical practice. Specialists discuss the problems in their fields of practice including particular pathology and they present the needs of physical therapy. This analysis is followed by prescription physical therapy to cover these special indications. There will be further clinical practice in hospitals.

Psychiatry 102—Elementary psychiatry. 2 points. Dr. ZIMMERMAN.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures with clinical demonstrations.

Prerequisite: *Psychology 33* or an equivalent.

SECOND YEAR

*Winter Session***Physical Therapy Theory 13—Theory and practice of electro-therapy and miscellaneous physical therapy applications and diagnosis aids.** 3 points. Professor SNOW; special lectures by Professor HOEFER, Drs. SAFFORD, WEISSENBERG, HORWITZ and MOLDAVER, Miss CALLAHAN, and Mrs. HANSEN.

(a) Techniques of application of electro-therapy.

- (b) Other miscellaneous physical therapy applications and diagnostic aids not otherwise provided for.
- (c) Intimate instruction in techniques of application of the various modalities of physical therapy with return demonstration by the student.

Motor Disabilities 121—Lectures and demonstrations. 2 points. Professor SNOW, Drs. GREENE and HALLER, and staff.

A consideration of motor disabilities due to developmental abnormalities, disease, or injury to the central nervous system. Both upper and lower motor neuron affections will be considered. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

Bandaging 17—Bandaging and dressing. 1 point. Dr. HOBERMAN and Mrs. GABRUNAS.

The techniques of bandaging, asepsis, handling of dressings, bedside conduct.

Psychiatry 101—Psychosomatic aspects of physical medicine. 2 points. Dr. KELLEY.

A consideration of the effect of personality factors on sick individuals and a consideration of the problems that occur due to alteration of their psyche as a result of stress of illness.

Physiology 157—Aspects of human physiology. 2 points. Dr. ZUCKER and Miss REYNOLDS.

This course includes the physiology of the nervous system, of circulation, and of respiration. Emphasis is placed upon the physiology of exercise to meet the needs of the occupational therapy and physical therapy student. Lectures and laboratory demonstrations.

Neuroanatomy 95—Anatomy of the nervous system. 1 point. Instructor to be announced.

Anatomy of the nervous system of man, including: essentials of the structural unit, the cerebrospinal system and the autonomic system. Attention will be given to the gross divisions of the brain and spinal cord with particular emphasis on the controls affecting voluntary motion.

Spring Session

Massage 104—Advanced massage. 2 points. Dr. GUREWITSCH and assistants. Neurological Institute.

Lectures and demonstrations of massage in the treatment of medical entities. Prerequisite: *Massage 3.*

Occupational Therapy 14—Principles and practice of occupational therapy. 2 points Spring Session. Miss FRANCISCUS.

Lecture and laboratory work in application of principles with emphasis on adaptation of equipment and apparatus as used in the orthopedic field. Demonstration and return demonstrations with emphasis on functional analysis of treatment activities.

Application 30 (Part II)—Practical application of physical therapy in medical and surgical practice. Lectures and laboratory. 3 points Spring Session. Professor SNOW and associates.

This course gives the students a closer acquaintance with disease as it is observed in medical practice. Specialists discuss problems in their fields of practice including particular pathology and present the needs of physical therapy. This analysis is followed by prescription physical therapy to cover these special indications. There will be further clinical practice in hospitals.

Rehabilitation 150—Rehabilitation and acceptance of handicaps. 2 points.
Miss SHELDON.

The readjustment physically and psychologically of the handicapped patient to meet the progressive problems of life; a consideration of the agencies for assisting handicapped individuals.

Education 262K—Speech correction. 3 points. Dr. ZIMMERMAN.

This course deals with the following five units: (1) Historical development, place of speech correction in American education. (2) Classification of speech defects. (3) Basic functions of speech mechanism requisite to speech correction. (4) Methods of diagnosis. (5) Methods of treatment of common defects such as lisping, indistinct pronunciation, delayed speech, stuttering, and voice inadequacies.

Neurology 106—Clinical neurology. 2 points. Dr. ZIMMERMAN.

Symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.
Prerequisite: *Psychology 33* or an equivalent.

Summer Session

Exercise S112—Therapeutic exercise. 2 points. Miss O'NEILL.

Students, resident at New York State Reconstruction Home for a period of one month, receive instruction in underwater exercise, methods of rehabilitation, and observation and practice in muscle testing, with special attention to the treatment of anterior poliomyelitis.

Training Courses for
Occupational Therapists

ADMINISTRATIVE OFFICERS

WILLIAM BENHAM SNOW, M.D., *Assistant Professor of Medicine, Faculty of Medicine; Director of Physical and Occupational Therapy, Columbia-Presbyterian Medical Center*

¹MARJORIE FISH, A.B., O.T.R., *Director of Training Courses for Occupational Therapists*

MARIE LOUISE FRANCISCUS, B.S., O.T.R., *Acting Director of Training Courses for Occupational Therapists*

MARGUERITE ABBOTT, B.S., O.T.R., *Associate Director of Training Courses for Occupational Therapists*

OFFICERS OF INSTRUCTION

OCCUPATIONAL THERAPY

MARGUERITE ABBOTT, O.T.R. *Principles and Practice of Occupational Therapy, Theory of Occupational Therapy*

B.S., Tufts; Graduate, Boston School of Occupational Therapy.
Associate Director, Training Courses for Occupational Therapists.

WILLIAM B. ATKINSON *Anatomy*
B.S., M.S., Virginia; Ph.D., Yale.
Assistant Professor of Anatomy.

HERBERT ELFTMAN *Anatomy*
A.B., A.M., California; Ph.D., Columbia.
Assistant Professor of Anatomy.

¹MARJORIE FISH, O.T.R. *Theory of Occupational Therapy*
A.B., Swarthmore; Graduate, Boston School of Occupational Therapy.
Director, Training Courses for Occupational Therapists.

MARIE LOUISE FRANCISCUS, O.T.R. *Principles and Practice of Occupational Therapy, Theory of Occupational Therapy*
B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy.
Acting Director, Training Courses for Occupational Therapists.

EDWARD J. FREY. *Printing*
Lecturer, School of General Studies.

JULIA S. HALLER *Therapeutic Exercise*
M.D., Vienna.
Assistant in Medicine.

WILLIE H. HINLEY *Woodwork, Metal Work, General Shop*
B.S., Georgia Teachers College; A.M., Columbia.
Instructor in Fine and Industrial Arts in Teachers College.

¹ On leave 1948-1949.

EDWARD L. HOWES	General Surgery
B.S., M.D., Yale; M.S., Med.Sc.D., Columbia. Associate Clinical Professor of Surgery.	
M. BECKETT HOWORTH	Orthopedics
B.S., Mississippi; M.D., Washington; Med.Sc.D., Columbia. Associate in Orthopedic Surgery.	
NATHAN KREVITSKY	Leather, Design, Minor Crafts
A.B., Chicago. Instructor in Fine and Industrial Arts in Teachers College.	
LUTIA CLEMSON LEAVELL	Biology
B.S., A.M., M.S., Columbia. Instructor in Nursing Education in Teachers College.	
MELVIN LOOS	Printing
Lecturer in Graphic Arts in the School of General Studies. Manager, Printing Office, Columbia University Press.	
FLOY PINKERTON	Kinesiology
B.S., Stephen Austin State Teachers College; A.M., Columbia. Associate Director, Training Courses for Physical Therapists.	
JOSEPHINE L. RATHBONE	Kinesiology, Recreation for the Handicapped; Director, Training Courses for Physical Therapists
A.B., Wellesley; A.M., Ph.D., Columbia. Associate Professor of Health and Physical Education in Teachers College.	
MONICA REYNOLDS	Physiology
B.S., Simmons; A.B., Columbia. Instructor in Physiology.	
ROBERT W. ROBISON	Pottery
A.B., Louisiana Polytechnic Institute; A.M., Louisiana State. Instructor in Fine and Industrial Arts in Teachers College.	
MARTIN DE FOREST SMITH	General Medicine
A.B., M.D., Columbia. Associate Clinical Professor of Medicine.	
WILLIAM BENHAM SNOW	Therapeutic Exercise, Ethics, Motor Disabilities
M.D., Long Island College of Medicine. Assistant Professor of Medicine; Director, Physical and Occupational Therapy, Columbia-Presbyterian Medical Center.	
MARGARET STARK	Design
A.B., Indiana; A.M., Oberlin. Instructor in Fine and Industrial Arts in Teachers College.	
HELEN THOMPSON	Child Psychology
A.B., Vassar; A.M., Ph.D., Columbia. Lecturer in Psychology in the School of General Studies.	
PAUL E. WILSON	Pediatrics
A.B., Cornell; M.D., Johns Hopkins. Assistant in Pediatrics.	

DOROTHEA G. WORCESTER *Pathology*
 A.B., Manhattanville; M.D., New York University.
 Instructor in Pathology.

FREDERIC T. ZIMMERMAN *Neurology and Psychiatry*
 A.B., Bucknell; A.M., Columbia; M.D., Maryland.
 Instructor in Neurology.

MARJORIE B. ZUCKER *Physiology*
 A.B., Vassar; Ph.D., Columbia.
 Research Assistant in Physiology.

SPECIAL LECTURERS

MARGARET W. BARNARD *Public Health*
 A.B., Smith; M.D., Cornell; Ph.D., Johns Hopkins.
 Assistant Commissioner for District Health Administration, City of New York.

HELEN BECHT *Rehabilitation*
 A.B., Cincinnati; A.M., Columbia.
 Field Consultant, Rehabilitation Service, National Tuberculosis Association.

JEAN BILLINGTON, O.T.R. *Principles and Practice of Occupational Therapy*
 O.T. Certificate, Toronto.
 Occupational Therapist, Presbyterian Hospital.

EDITH H. BROKAW, O.T.R. *Clothing Construction*
 Rutgers, 1937-1938; Graduate, Philadelphia School of Occupational Therapy.

MARY BRANDT, O.T.R. *Principles and Practice of Occupational Therapy*
 A.B., Wellesley; O.T. Certificate, Columbia.
 Director of Occupational Therapy, New York Orthopedic Hospital and Dispensary.

BESSIE B. BURGEMEISTER *Abnormal Psychology*
 A.B., A.M., Ph.D., Columbia.
 Research Psychologist, Department of Neurology.

MARION CASS *Motor Disabilities*
 A.B., University of Nebraska; A.M.; Ed.D., Columbia. Associated with Winthrop M. Phelps, M.D., Baltimore.

MARY A. COVER *Therapeutic Exercise*
 Diploma, Sargent School of Physical Education.
 Head Physical Therapist, Neurological Institute.

FRANK D'ARCONTE *Printing*
 New York School of Printing.

FREDERIC G. ELTON *Rehabilitation*
 Diploma, Massachusetts State Normal School; Massachusetts Institute of Technology.
 Chief District Supervisor, Division of Vocational Rehabilitation, New York State Department of Education.

JUSTIN GREENE *Motor Disabilities*
 M.D., Pennsylvania.
 Assistant Attending Neurologist, Neurological Institute.

VIRGINIA R. HATCH, O.T.R. . . . *Principles and Practice of Occupational Therapy*
A.B., Allegheny; O.T. Certificate, Columbia,
Chief Occupational Therapist, Columbia-Presbyterian Medical Center.

ELSIE HEMLOCK *Therapeutic Exercise*
Physical Therapist, Columbia-Presbyterian Medical Center.

JETTA HENDIN *Therapeutic Exercise*
B.S., Manitoba.
Physical Therapist, Columbia-Presbyterian Medical Center.

FLORENCE C. HOUSE *Bookbinding, Weaving*
B.S., A.M., Columbia.

HOLLAND HUDSON *Rehabilitation, Tuberculosis*
Director, Rehabilitation Service, National Tuberculosis Association.

EDITH KATZ *Rehabilitation*
Vocational Counselor, New York League for the Hard of Hearing.

NORMAN MATTHEWS. *Machine Shop*
B.S., New York University.
Instructor, New York City Public School System, Chelsea Vocational High School.

MARY MERRITT, O.T.R. *Principles and Practice of Occupational Therapy*
Director of Occupational Therapy, Department of Hospitals, New York City.

CHARLES MION *Sheet Metal*
University of the State of New York, Trade and Industrial Arts Teacher Training Course.
Instructor, New York City Public School System, Chelsea Vocational High School.

A. WILLIAM REGGIO *Rehabilitation*
A.B., M.D., Harvard.
Senior Surgeon, Physical Medicine and Rehabilitation, U. S. Public Health Service.

JAMES RYAN *Machine Shop*
University of the State of New York, Trade and Industrial Arts Teacher Training Course.
Instructor, New York City Public School System, Chelsea Vocational High School.

JEAN C. TOMLINSON, O.T.R. . . . *Principles and Practice of Occupational Therapy*
B.S., Milwaukee-Downer.
Occupational Therapist, Presbyterian Hospital.

OCCUPATIONAL THERAPY, often referred to as the "work cure," consists of the practice of remedial treatment in the form of supervised activity for persons injured in body or mind by accident or disease. Handicrafts, recreational activities, educational pursuits, and pre-industrial training are the concern of the therapist participating in modern occupational therapy programs today as they help toward the physical, mental, social, and economic adjustment of the patient.

Occupational therapy was first used on a wide scale as an aid to recovery and guide to vocational rehabilitation of servicemen wounded or disabled in World War I. Recognition of its value has expanded steadily in the past twenty-five years and with its growth has come the increasing need for more trained therapists. The functional rehabilitation of persons injured in war and civilian life is a pressing need. Occupational therapy is filling an important role in the postwar program.

A Bachelor of Science degree in occupational therapy is offered upon completion of the two-year training course. Candidates for admission to this course must present a minimum of sixty liberal arts credits.

A Certificate in Occupational Therapy is awarded to students who already have a Bachelor's degree upon completion of seventeen months of full-time training as outlined.

The curriculum consists of classroom work devoted to courses in the biological, social, and clinical sciences providing a scientific, medical, and theoretical background together with courses in the techniques of creative arts, recreational therapy, educational therapy, and prevocational training as they enter into the actual practice of occupational therapy. There is a nine-month period of clinical practice in teaching hospitals under supervision of the University. A close relationship with the Departments of Fine and Industrial Arts, Nursing Education, and Health and Physical Education in Teachers College makes available to the student unusual clinical, practical, and educational facilities.

The courses described in this Announcement meet the requirements set forth by the Council on Medical Education and Hospitals of the American Medical Association as published in their *Essentials of an Acceptable School of Occupational Therapy*, which regulates the standards by which schools are accredited. Graduation from an accredited course leads to eligibility for examination for admission to the Directory of Registered Occupational Therapists maintained by the American Occupational Therapy Association.

ADMISSION REQUIREMENTS

Students will be admitted in September. Applicants for admission must be graduates of approved high schools and must satisfy one of the following requirements:

- A. *Candidates for the Degree.* Students who have satisfactorily completed at least two years of acceptable work in a college approved by Columbia

University may register for the regular course to be completed in two years (twenty-five calendar months). The two years in liberal arts required for admission on this basis, sixty semester credits, should include a year of college science, and at least one semester in general psychology and one semester in sociology.

NOTE: Graduates from accredited professional training in fields closely related to physical medicine, such as nurses, will be admitted to the two-year training course and will be granted a certificate. (No degree will be granted unless the candidate has sixty semester credits of acceptable college work.)

B. *Candidates for the Certificate.* Students who hold a baccalaureate degree acceptable to Columbia University may register on advanced standing, completing the course in seventeen months—eight months theoretical training and nine months in clinical practice. Courses in natural sciences, including chemistry or biology, psychology, and sociology, should be included in the college courses.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Occupational Therapy office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y. Such forms should be filed several months in advance of the time at which students wish to begin their studies.

Candidates for the professional courses must be between 19 and 35 years of age.

Demands made on the physical endurance and emotional stamina of the therapist require a record of good health.

While occupational therapy is a profession of interest primarily to women, there are certain positions in the field for which it is desirable to have male therapists. For this reason a limited number of men may be admitted to the professional courses, depending upon individual qualifications.

ESTIMATED EXPENSES

Following is an itemized estimate of expenses of attendance in the courses in occupational therapy.

<i>University Expenses</i>	<i>Two-Year Course</i>	<i>One-Year Course</i>
Tuition	\$900.00	\$450.00
University Fees	50.00	30.00
Books, materials, equipment, uniforms	75.00	50.00
Fee for physical examination	5.00	5.00
Degree application	20.00	10.00
	—————	—————
	\$1,050.00	\$545.00

	<i>Living Expenses (academic year)</i>	<i>Average</i>	<i>Minimum</i>
Room	· · · · · · · · · · · · · · · ·	\$370	\$185
Board	· · · · · · · · · · · · · · · ·	310	310
		<hr/>	<hr/>
		\$680	\$495

During clinical training students spend approximately four months of the period in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time, thereby reducing total expense. There is a registration charge only during affiliation.

There will be nominal transportation expenses for students in hospital affiliations outside of the local area.

COURSE OF STUDY IN OCCUPATIONAL THERAPY

An outline of the program of studies for each year of the course is given below. In the Degree course the first two years are spent on the Campus in theoretical and technical study, followed by nine months devoted to clinical practice in mental, general, children's, orthopedic, and tuberculosis services, or hospitals. The summer periods are utilized for required clinical practice, thereby enabling the student to complete the full course in approximately two years.

Certificate students completing the course in seventeen months carry a program combining first-year and second-year courses during the one year spent on the Campus, followed by nine months devoted to clinical practice.

DEGREE COURSE

FIRST YEAR

Winter Session

		<i>Points</i>
<i>Occ. Ther. 11</i>	Elementary theory of occupational therapy	2
<i>Psychology 33</i>	Abnormal psychology	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	1
<i>Anatomy 155</i>	Anatomy	3
<i>Physiology 157</i>	Applied physiology	2
<i>Ethics 39</i>	Ethics and institutional aspects of physical medicine	1
<i>Recreation 171</i>	Rehabilitation through physical education and recreation	2
<i>O. T. Fine Arts 41</i>	Bookbinding	2
<i>O. T. Fine Arts 163</i>	Woodwork	2
		<hr/> 18

Spring Session

<i>Occ. Ther. 12</i>	Theory of occupational therapy	2
<i>Occ. Ther. 14</i>	Principles and practice of occupational therapy	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>T. C. Fine Arts 101T</i>	Fundamentals of design	2
<i>O. T. Fine Arts 22</i>	Minor crafts	3
<i>O. T. Fine Arts 164</i>	Woodwork	2
<i>O. T. Fine Arts 188</i>	Elementary weaving	2

Elective:

<i>T. C. Biology 153b</i>	Muscles, bones, joints	1
		<hr/> 18

COLUMBIA UNIVERSITY

SECOND YEAR

Winter Session

		Points
<i>Occ. Ther. 21</i>	Advanced theory of occupational therapy	2
<i>Clinical Subjects 101</i>	General medicine and surgery	2
<i>G.S. Psychology 57</i>	Child psychology	2
<i>Kinesiology 105</i>	Practical and applied kinesiology	2
<i>Motor Disabilities 121</i>	Techniques for motor disabilities	2
<i>O. T. Graphic Arts 1</i>	Art of hand printing	2
<i>O. T. Ind. Arts 103</i>	Machine shop practices	2
<i>O. T. Fine Arts 189</i>	Advanced weaving	4
		<hr/> 18

Spring Session

<i>Occ. Ther. 22</i>	Advanced theory of occupational therapy	2
<i>Occ. Ther. 24</i>	Advanced principles and practice of occupational therapy	2
<i>Occ. Ther. 118</i>	Rehabilitation	2
<i>Clinical Subjects 102</i>	Orthopedics, pediatrics, public health	2
<i>Exercise 112</i>	Therapeutic exercise	2
<i>O. T. Fine Arts 26</i>	Leather	1
<i>O. T. Fine Arts 28</i>	Pottery	2
<i>O. T. Fine Arts 20</i>	Garment construction	1
<i>O. T. Fine Arts 106</i>	Interpretive design	2
<i>O. T. Fine Arts 168</i>	General shop	2
		<hr/> 18

CERTIFICATE COURSE

Winter Session

<i>Occ. Ther. 11</i>	Elementary theory of occupational therapy	2
<i>Anatomy 155</i>	Anatomy	3
<i>Physiology 157</i>	Applied physiology	2
<i>Psychology 33</i>	Abnormal psychology	2
<i>Kinesiology 105</i>	Practical and applied kinesiology	2
<i>Clinical Subjects 101</i>	General medicine and surgery	2
<i>O. T. Industrial Arts 103</i>	Machine shop practices	2
<i>O. T. Fine Arts 27</i>	Pottery	2
<i>O. T. Fine Arts 163</i>	Woodwork	2
		<hr/> 19

Spring Session

<i>Occ. Ther. 12</i>	Theory of occupational therapy	2
<i>Occ. Ther. 24</i>	Advanced principles and practice of occupational therapy	2
<i>Clinical Subjects 102</i>	Orthopedics, pediatrics, public health	2
<i>Exercise 112</i>	Therapeutic exercise	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>T. C. Fine Arts 101T</i>	Fundamentals of design	2
<i>O. T. Graphic Arts R1</i>	Hand printing	1
<i>O. T. Fine Arts 22</i>	Minor crafts	1

Points

<i>O. T. Fine Arts 168</i>	General shop	2
<i>O. T. Fine Arts 190</i>	Advanced weaving	3
		19

Attendance at a weekly seminar is required of all Certificate students during the Winter and Spring Sessions. Discussions in this seminar are concerned with advanced theory and principles and practice of occupational therapy.

HOSPITALS AND AGENCIES AFFILIATED FOR CLINICAL TRAINING

The nine months of clinical training consists of full-time practical experience in well-organized and carefully supervised Occupational Therapy Departments under the immediate direction of registered occupational therapists. During this period students attend lectures, clinics, staff meetings, and orientation in related treatment departments, conduct special case studies, and obtain practical experience in special therapeutics, such as physical education, educational therapy, and prevocational therapy.

THE ASSOCIATION FOR THE AID OF CRIPPLED CHILDREN, New York, N. Y.

Mrs. Alice Fitzgerald, R.N., *Executive Secretary*
Miss Clara Levine, O.T.R.

BRATTLEBORO RETREAT, Brattleboro, Vermont

George Elliott, M.D., *Superintendent*
Miss Hope Severance, O.T.R., *Director of Occupational Therapy*

BRIDGEPORT REHABILITATION CENTER, INC., Bridgeport, Conn.

Mrs. Virginia Hampton, *Executive Director*
Miss Florence M. Stattel, O.T.R., *Director of Occupational Therapy*

THE CHILDREN'S HOSPITAL, Buffalo, N. Y.

Moir P. Tanner, *Superintendent*
Miss Ann L. Nixdorf, O.T.R., *Director of Occupational Therapy*

CHILDREN'S REHABILITATION INSTITUTE, Cockeysville, Maryland

Winthrop M. Phelps, M.D., *Medical Director*
Miss Ruth Brunyate, O.T.R., *Director of Occupational Therapy*

THE CLEVELAND REHABILITATION CENTER, Cleveland, Ohio

Miss Belle Greve, *Director*
Miss Rachel Martiny, O.T.R., *Supervisor of Occupational Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N. Y.

John S. Parke, *Executive Vice-President*
Miss Virginia Hatch, O.T.R., *Chief Occupational Therapist*

COMMUNITY WORKSHOP, Providence, R. I.

Mrs. Iris W. Booth, *Executive Secretary*
Miss H. Elsbeth Harrison, O.T.R., *Director of Occupational Therapy*

CONNECTICUT STATE HOSPITAL, Middletown, Conn.

Edgar C. Yerbury, M.D., *Superintendent*
Miss Ethel Bradford, O.T.R., *Director of Occupational Therapy*

EMORY UNIVERSITY HOSPITAL, Atlanta, Georgia

Service Guild Curative Workshop

Robert L. Bennett, M.D., *Medical Director*
Miss Martha Schnebly, O.T.R., *Director of Occupational Therapy*

FAIRFIELD STATE HOSPITAL, Newton, Conn.

William F. Green, M.D., *Superintendent*
Miss Bertha J. Piper, O.T.R., *Director of Occupational Therapy*

GALLINGER MUNICIPAL HOSPITAL, Washington, D. C.

Crippled Children's Clinic

Alvin R. Sweeney, M.D., *Superintendent*
Miss Gertrude Dorsey, O.T.R., *Director of Occupational Therapy*

GERMANTOWN DISPENSARY AND HOSPITAL, Philadelphia, Penna.

Donald C. Smelzer, M.D., *Managing Director*
Miss Alice Letchworth, O.T.R., *Director of Occupational Therapy*

HERMAN M. BIGGS MEMORIAL HOSPITAL, Ithaca, N. Y.

N. Stanley Lincoln, M.D., *Superintendent*
Miss Lyda Bancroft, O.T.R., *Supervisor of Occupational Therapy, New York State Department of Health*

HOSPITAL FOR SPECIAL SURGERY, New York, N. Y.

F. Wilson Keller, *Director*
Miss Doris Nichols, O.T.R., *Director of Occupational Therapy*

INDUSTRIAL WORKSHOPS, Rochester, N. Y.

Miss Frances Helmig, O.T.R., *Director*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N.Y.

Colonel John N. Smith, Jr., *Director*
Miss Carol Smith, O.T.R., *Director of Occupational Therapy*
Charles Kinnard, *Director of Physical Therapy*

MONTEFIORE HOSPITAL—COUNTRY SANATORIUM, Bedford Hills, N.Y.

Arthur Eisenberg, *Rehabilitation Executive*
Mrs. Dorothy Sebesta, O.T.R., *Chief Occupational Therapist*

NEW HAVEN WORKSHOP, New Haven, Conn.

Miss Marion Maurer, O.T.R., *Director of Occupational Therapy*

NEW YORK CITY DEPARTMENT OF HOSPITALS

Miss Mary E. Merritt, O.T.R., *Director, Division of Occupational Therapy*

Bellevue Hospital

Miss Helen C. Mathias, O.T.R., *Supervisor of Occupational Therapy*

City Home for the Blind

Miss Grace Hildenbrand, O.T.R., *Acting Supervisor of Occupational Therapy*

City Hospital

Mrs. Frances O'Brien, O.T.R., *Supervisor of Occupational Therapy*

Goldwater Memorial Hospital

Miss Frances E. Heess, O.T.R., *Supervisor of Occupational Therapy*

Kings County Hospital

Miss Anna McNulty, *Supervisor of Occupational Therapy*

Sea View Hospital

Miss Julia Olivo, O.T.R., *Supervisor of Occupational Therapy*

Triboro Hospital

Miss Gertrude Wait, O.T.R., *Supervisor of Occupational Therapy*

NEW YORK HOSPITAL, New York, N. Y.

Children's Clinic

S. Z. Levine, M.D., *Pediatrician in Charge*

Miss Norma Alessandrini, O.T.R., *Director of Occupational Therapy*

Payne Whitney Psychiatric Clinic

Oskar Diethelm, M.D., *Psychiatrist in Charge*

Miss Mildred Spargo, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Miss Virginia M. Scullin, O.T.R., *Director of Occupational Therapy*

Pilgrim State Hospital (Brentwood, L. I.)

Harry J. Worthing, M.D., *Senior Director*

Miss Helen Hedges, O.T.R., *Acting Director of Occupational Therapy*

New York State Psychiatric Institute and Hospital (New York, N. Y.)

Nolan D. C. Lewis, M.D., *Director*

Miss Marguerite Vaughan, O.T.R., *Director of Occupational Therapy*

Rockland State Hospital

R. E. Blaisdell, M.D., *Senior Director*
Martin W. Neary, O.T.R., *Director of Occupational Therapy*

NEW JERSEY STATE HOSPITAL, Trenton, N. J.

J. B. Spradley, M.D., *Medical Director*
Miss Naida Ackley, O.T.R., *Director of Occupational Therapy*

NIAGARA SANATORIUM (NIAGARA COUNTY), Lockport, N. Y.

Arthur N. Aitken, M.D., *Superintendent*
Mrs. Charlotte Briggs, O.T.R., *Director of Occupational Therapy and Rehabilitation*

NEW YORK STATE RECONSTRUCTION HOME, W. Haverstraw, N. Y.

Austin J. Canning, M.D., *Director*
Viola W. Svensson, O.T.R., *Director of Occupational Therapy*

REHABILITATION CENTER, LIBERTY MUTUAL INSURANCE CO., Boston, Mass.

Stanwood L. Hanson, *Director of Rehabilitation*
Miss Nancy Martin, O.T.R., *Director of Occupational Therapy*

RHODE ISLAND HOSPITAL, Providence, R. I.

Oliver G. Pratt, *Executive Director and Superintendent*
Miss Mary Pratt, O.T.R., *Director of Occupational Therapy*

SHEPPARD AND ENOCH PRATT HOSPITAL, Towson, Maryland

Ross McG. Chapman, M.D., *Superintendent*
Mrs. Marshall Price, O.T.R., *Director of Occupational Therapy*

OUTLINE OF COURSES

The University reserves the right to withdraw or modify these courses or to change the instructors as may seem wise.

NOTE. For electives and additional courses open to students in occupational therapy consult the Announcements of Teachers College and the School of General Studies.

DEGREE COURSE

FIRST YEAR

Winter Session

***Occupational Therapy 11—Theory of occupational therapy.** 2 points. Miss FRANCISCUS and special lecturers.

A general survey of the field. Correlation of theoretical principles with practical application. History and development of occupational therapy with special references to present uses and techniques. Supplementary reading and reports. Field visits.

***Psychology 33—Abnormal psychology.** 2 points. Dr. BURGEMEISTER.

This course describes the common mental maladjustments, undertaking to explain them in terms of general principles. The social implications of abnormalities are emphasized.

Prerequisite: General psychology.

Pathology 31—Elementary studies in pathology. 1 point. Dr. WORCESTER.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alteration of function resulting from these influences.

Neuroanatomy 95—Anatomy of the nervous system. 1 point. Instructor to be announced.

Anatomy of the nervous system of man, including: essentials of the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain and spinal cord with particular emphasis on the controls affecting voluntary motion.

***Anatomy 155—Human anatomy.** 3 points. Professors ELFTMAN and ATKINSON.

Provides the basic and related histology, anatomy, and physiology for understanding the human body, especially the muscle-joint-bone unit. Includes demonstration on the human cadaver.

***Physiology 157—Aspects of human physiology.** 2 points. Dr. ZUCKER and Miss REYNOLDS.

This course includes the physiology of the nervous system, of circulation, and of respiration. Emphasis is placed upon the physiology of exercise to meet the needs of the occupational therapy and physical therapy student. Lectures and laboratory demonstrations.

Ethics 39—Ethics and institutional aspects of physical medicine. 1 point. Professor SNOW and Dr. MACCURDY.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

Recreation 171—Rehabilitation through physical education and recreation. 1 or 2 points. Professor RATHBONE.

To be applied to the needs of exceptional children or to rehabilitation for adults. Activities include those appropriate for various types of handicaps as well as for various age levels.

O.T. Fine Arts 41—Bookbinding. 2 points. Miss HOUSE.

Instruction in the basic processes of book and magazine binding, pamphlets, portfolios, and book repair. Decorative paper bindings, cloth and leather bindings. Problems of materials and costs are considered.

Materials charge.

***O.T. Fine Arts 163—Woodwork. 2 points. Mr. HINLEY.**

A course designed to orient students in the fundamentals of woodworking and to develop a reasonable skill in the use of hand-tools and finishing processes. Elementary principles of mechanical drawing.

Materials charge.

Spring Session

***Occupational Therapy 12—Theory of occupational therapy. 2 points. Miss FRANCISCUS and special lecturers.**

Application in the major medical fields. Professional and hospital ethics and etiquette. Supplementary reading and reports. Field visits.

Occupational Therapy 14—Principles and practice of occupational therapy. 2 points. Miss FRANCISCUS.

Lecture and laboratory work in application of principles with emphasis on adaptation of equipment and apparatus as used in the orthopedic field. Demonstration and return demonstration with emphasis on functional analysis of treatment activities.

***Psychiatry 102—Elementary psychiatry. 2 points. Dr. ZIMMERMAN.**

Etiology and symptomatology of the major and minor psychoses including the psychoneuroses and their treatment. Lectures with clinical demonstrations.

Prerequisite: *Psychology 33* or an equivalent.

Neurology 106—Clinical neurology. 2 points. Dr. ZIMMERMAN.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

Prerequisite: *Psychology 33* or an equivalent.

***T.C. Fine Arts 101T—Fundamentals of design. 2 points. Mr. KREVITSKY.**

The fundamental principles of design and their interrelations are studied through experiences in two and three dimensional designing. Practice in decorative and abstract design for textiles, posters, ceramics, and other art forms. Museum and store visits, lectures, readings, and discussions.

Materials charge.

***T.C. Fine Arts 22—Minor crafts. 1, 2, or 3 points. Mr. KREVITSKY.**

This course covers techniques and hospital application of reed and raffia work, chair seating, cord knotting, netting, fly tying, plastics, and needlecraft; hand puppets and paper craft with emphasis on children's projects.

Materials charge.

O. T. Fine Arts 164—Woodwork. 2 points. Mr. HINLEY.

This course is a continuation of *O.T. Fine Arts 163*.

O.T. Fine Arts 188—Elementary weaving. 2 points. Miss HOUSE.

A workshop course in beginning weaving. Problems include the use of small appliances such as cards, inkle looms, rigid and string heddle looms for making belts, bags, and other articles.

Experimenting with unusual as well as standard yarns, for texture and color. Dyeing. Plain weaving, simple harness-controlled patterns and standard weaves. Learning the mechanism and setting up of the loom, as well as the making of patterns and reading and writing of drafts. Trips to museums and various institutions.

Materials charge.

T.C. Biology 153b—Muscles, bones, joints. 1 point. Miss LEAVELL.

For students who wish additional study on bones, joints, and muscles, and experience in handling laboratory materials.

SECOND YEAR

Winter Session

Occupational Therapy 21—Advanced theory of occupational therapy. 2 points. Miss ABBOTT and special lecturers.

A review and advanced study of theory and techniques in the application of occupational therapy in the various medical fields; psychiatry, tuberculosis, pediatrics, general medicine and surgery, orthopedics, cardiology, blind and deaf. Supplementary reading and reports. Field visits.

***Clinical Subjects 101—General medicine and surgery. 2 points.**

General Medicine. Professor SMITH.

A brief outline of the etiology of disease and the medical pathology of the various systems.

General Surgery. Professor HOWES.

A consideration of the manifestations, complications, and convalescence in medical and surgical conditions for which occupational therapy is prescribed. Clinical lectures and case demonstrations.

G.S. Psychology 57—Child psychology. 2 points. Dr. THOMPSON.

This course covers the important phases of development during the early childhood years, from birth to adolescence. The specific topics studied include physical growth, motor development, learning to walk, emotions, social development, play, childhood mysteries, and personality. The common problems that arise at different times during the childhood years are discussed and suggestions made in regard to the best methods of dealing with them.

Prerequisite: General psychology.

***Kinesiology 105—Applied anatomy and kinesiology. 1 or 2 points. Professor RATHBONE and Miss PINKERTON.**

Topics include review of gross anatomy of skeletal and muscular systems, mechanics of bodily movement, analysis of skills used in daily activities and in physical and occupational therapy.

Motor Disabilities 121—Lectures and demonstrations. 2 points. Professor SNOW, Drs. GREENE and HALLER, and staff.

A consideration of motor disabilities due to developmental abnormalities, disease or injury to the central nervous system. Both upper and lower motor neuron affections will be considered. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

O.T. Graphic Arts 1—Art of hand printing. 1 or 2 points. Messrs. Loos, D'ARCONTE, and FREY.

The fundamentals of printing, and its application as therapeutic exercise for handicapped persons. The lectures, which are supplemented by films, demonstrations, and trips, include: (a) Type faces: history, sizes, point system, methods of hand and machine composition, makeup into pages, fitting of copy; (b) Proofreading; (c) Presswork: a visit to a printing plant affords the student an opportunity to see in actual operation the methods of linotype composition, imposition, makeready, and binding. The laboratory affords practical application of hand typesetting, including operation of hand and foot presses. Stress is placed on arrangement and good taste in handling various sizes of type.

***O.T. Industrial Arts 103—Machine shop practices. 2 points. Messrs. MATTHEWS, MION, and RYAN.**

An orientation course to familiarize the student with the mechanical skills used therapeutically in pretechnical activities: dye-cutting, metal lathe, principles of forging, radio assembly and repair, electrical wiring, etc.

O.T. Fine Arts 189—Advanced weaving. 3 or 4 points. Miss HOUSE.

An advanced course in weaving. Weaving on two, four, and eight harness looms. Standard weaves: colonial, overshot, summer and winter, spot and lace Bronson, crackle, twills. Special weaves: laid-in, warp and weft brocades, open weaves, tapestries, pile weaves including looped and tufted types, double weaving and Scandinavian techniques. Making of patterns and drafts, analysis of fabrics, including draft treading and tie-up. Experimenting with fibers and weaves with special emphasis on color, texture, and design. Trips to museums and other institutions.

Materials charge.

*Spring Session***Occupational Therapy 22—Advanced theory of occupational therapy. 2 points. Miss ABBOTT.**

Study of departmental organization and administration. Consideration of the role of occupational therapy in present-day rehabilitation, correlating creative arts, recreational, educational, and industrial trends. Supplementary reading and reports.

***Occupational Therapy 24—Advanced principles and practice of occupational therapy. 2 points. Miss ABBOTT.**

Lecture and laboratory course in application of techniques in treatment of orthopedic conditions, including cerebral palsy and physical injuries. Measuring and charting of joint motion and muscle strength.

Demonstration and return demonstration by the student.

Occupational Therapy 118—Rehabilitation. 2 points. Miss FRANCISCUS (co-ordinator) and special lecturers.

A survey of public and private agencies offering facilities for the physical and vocational rehabilitation of handicapped persons including guidance, training, and placement. A study of organization and legislation of state and Federal vocational rehabilitation to acquaint the student with community resources, especially in terms of present-day trends. Field trips.

Clinical Subjects 102—Orthopedics, pediatrics, public health. 2 points.Orthopedics. Dr. HOWORTH.*

Diseases and injuries of bones, joints, and muscles, causing impairment of function and deformity. Consideration is given to body mechanics. Clinical lectures and case demonstrations.

Pediatrics. Dr. WILSON.

A study of the common diseases of childhood.

Public Health. Dr. BARNARD.

An orientation course to familiarize the student with phases of preventive medicine and public health problems including communicable and contagious diseases, tuberculosis, blindness, and deafness.

***Exercise 112—Therapeutic exercise. 2 or 3 points. Professor SNOW and associates.**

Fundamentals of muscle re-education; the application of directed movement as an accessory in the treatment of altered function; includes practice in the treatment of crippled patients.

O.T. Fine Arts 26—Leather. 1 point. Mr. KREVITSKY.

A basic course covering the techniques of leather work as used in occupational therapy. Includes

tooling, lacing, and decorating of leather. Types of leather and choice of equipment and projects for hospital practice are emphasized.

Materials charge.

O.T. Fine Arts 28—Pottery. 2 points. Mr. ROBISON.

An introduction to the vast possibilities and methods of using clay to create functional pottery with coils, by casting, and with the potter's wheel. Mold making, methods of decorating, glazing, and firing of kilns are studied for practical use in teaching.

Students are charged \$3.00 for materials supplied by the department.

O.T. Fine Arts 10—Garment construction. 1 point. Miss BROKAW.

Course includes clothing construction, millinery, and sewing as applied to occupational therapy. Includes use and care of sewing machines, pattern alteration, selection of hospital projects, and principles of upholstering, slip covers, and draperies.

Students provide materials.

O.T. Fine Arts 106—Interpretive design. 2 points. Miss STARK.

Basic and related problems providing experience with various mediums of expression as used in occupational therapy, with stress upon valid design concepts.

Materials charge.

***O.T. Fine Arts 168—General shop.** 2 points. Mr. HINELY.

A course in mechanical drawing, art and metal, chip carving, plastics, general hand and power machine woodwork, and such other media as may be required to round out the shop experience of advanced occupational therapy students.

Materials charge.

CERTIFICATE COURSE

Winter Session

All courses marked * under Winter Session, First Year and Second Year.

In addition:

O.T. Fine Arts 27—Pottery. 2 points. Mr. ROBISON.

For course description see *O.T. Fine Arts 28*.

Spring Session

All courses marked * under Spring Session, First Year and Second Year.

In addition:

O.T. Graphic Arts R1—Art of hand printing. 1 point. Messrs. Loos, D'ARCONTE, and FREY.

For course description see *O.T. Graphic Arts 1*.

O.T. Fine Arts 190—Advanced weaving. 3 points. Miss HOUSE.

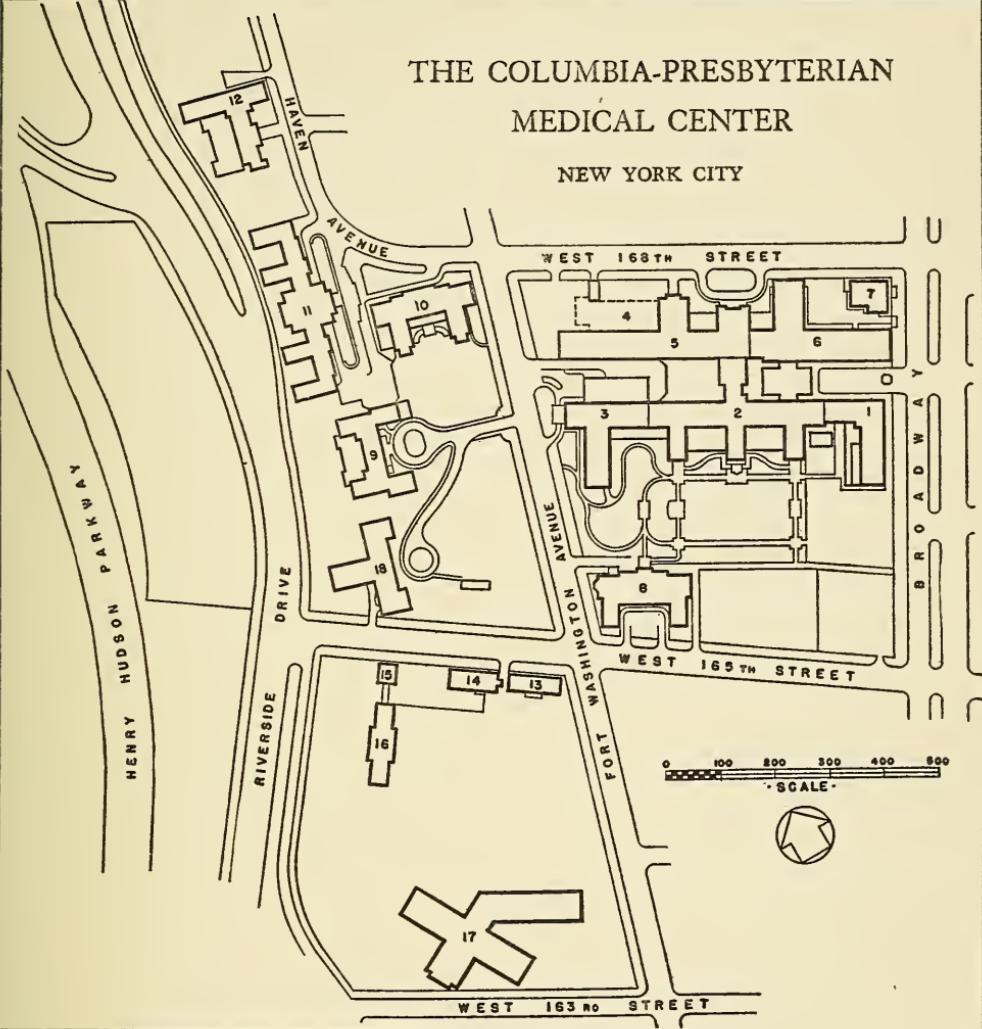
For course description see *O.T. Fine Arts 189*.



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THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

NEW YORK CITY



1. Babies Hospital
2. Presbyterian Hospital
Sloane Hospital
3. Harkness Pavilion
4. Power plant
5. College of Physicians and Surgeons
6. Vanderbilt Clinic
School of Dental and Oral Surgery
7. Washington Heights Health and Teaching Center, N. Y. City Dept. of Health
School of Public Health

8. Institute of Ophthalmology
9. Maxwell Hall
10. Neurological Institute
11. N. Y. State Psychiatric Institute and Hospital
12. Bard Hall
- 13, 16. Storage
14. Shops
15. Housing
17. Florence Nightingale Hospital (under construction), N. Y. City Dept. of Hospitals
18. Edward S. Harkness Memorial Hall

